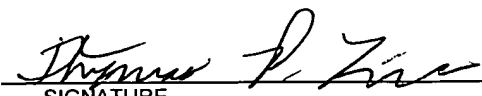


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|---|--|---|
| <b>TRANSMITTAL LETTER TO THE UNITED STATES<br/>                 DESIGNATED/ELECTED OFFICE (DO/EO/US)<br/>                 CONCERNING A SUBMISSION UNDER 35 U.S.C. 371</b>   |  | ATTORNEY'S DOCKET NUMBER<br>7512.130                                |
| INTERNATIONAL APPLICATION NO.<br>PCT/US2003/030737  |  | U.S. APPLICATION NO. (If known, see 37 CFR 1.5)<br><b>10/529012</b> |
| INTERNATIONAL FILING DATE<br>September 26, 2003   |  | PRIORITY DATE CLAIMED<br>September 26, 2002                         |
| TITLE OF INVENTION<br><b>Polysaccharide-Based Polymers and Methods of Making the Same</b>   |  |   |
| APPLICANT(S) FOR DO/EO/US <b>Tianhong Chen, Heather D. Embree, Eleanor M. Brown, Maryann M. Taylor, and Gregory F. Payne</b>  |  |   |
| Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:   |  |   |
| 1. <input checked="" type="checkbox"/> This is a <b>FIRST</b> submission of items concerning a submission under 35 U.S.C. 371.  |  |   |
| 2. <input type="checkbox"/> This is a <b>SECOND</b> or <b>SUBSEQUENT</b> submission of items concerning a submission under 35 U.S.C. 371.   |  |   |
| 3. <input checked="" type="checkbox"/> This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) indicated below.  |  |   |
| 4. <input checked="" type="checkbox"/> The US has been elected (Article 31).  |  |   |
| 5. <input checked="" type="checkbox"/> A copy of the International Application as filed (35 U.S.C. 371(c)(2)) <ul style="list-style-type: none"> <li>a. <input checked="" type="checkbox"/> is attached hereto (required only if not communicated by the International Bureau).</li> <li>b. <input type="checkbox"/> has been communicated by the International Bureau.</li> <li>c. <input type="checkbox"/> is not required, as the application was filed in the United States Receiving Office (RO/US).</li> </ul>  |  |   |
| 6. <input type="checkbox"/> An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)). <ul style="list-style-type: none"> <li>a. <input type="checkbox"/> is attached hereto.</li> <li>b. <input type="checkbox"/> has been previously submitted under 35 U.S.C. 154(d)(4).</li> </ul>  |  |   |
| 7. <input type="checkbox"/> Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3)) <ul style="list-style-type: none"> <li>a. <input type="checkbox"/> are attached hereto (required only if not communicated by the International Bureau).</li> <li>b. <input type="checkbox"/> have been communicated by the International Bureau.</li> <li>c. <input type="checkbox"/> have not been made; however, the time limit for making such amendments has NOT expired.</li> <li>d. <input type="checkbox"/> have not been made and will not be made.</li> </ul> |  |   |
| 8. <input type="checkbox"/> An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).   |  |   |
| 9. <input type="checkbox"/> An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)).  |  |   |
| 10. <input type="checkbox"/> An English language translation of the annexes of the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).   |  |   |
| <b>Items 11 to 20 below concern document(s) or information included:</b>  |  |   |
| 11. <input checked="" type="checkbox"/> An Information Disclosure Statement under 37 CFR 1.97 and 1.98.   |  |   |
| 12. <input type="checkbox"/> An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.  |  |   |
| 13. <input checked="" type="checkbox"/> A preliminary amendment.  |  |   |
| 14. <input checked="" type="checkbox"/> An Application Data Sheet under 37 CFR 1.76.  |  |   |
| 15. <input type="checkbox"/> A substitute specification.  |  |   |
| 16. <input type="checkbox"/> A power of attorney and/or change of address letter.   |  |   |
| 17. <input type="checkbox"/> A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821- 1.825.  |  |   |
| 18. <input checked="" type="checkbox"/> A second copy of the published International Application under 35 U.S.C. 154(d)(4).   |  |   |
| 19. <input type="checkbox"/> A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4).  |  |   |
| 20. <input checked="" type="checkbox"/> Other items or information: <b>PCT Request, International Search Report</b>   |  |   |

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

|   |              |   |         |  |  |                     |  |
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| U.S. APPLICATION NO. (if known, see 37 CFR 1.5)   |              | INTERNATIONAL APPLICATION NO. (if known, see 37 CFR 1.5)                      |         | PCT/US2003/030737  |  | 7512.130            |  |
| The following fees have been submitted<br>21. <input checked="" type="checkbox"/> Basic national fee..... \$300   |              |   |         | <b>CALCULATIONS</b>  |  | <b>PTO USE ONLY</b> |  |
|   |              |   |         | \$ 300.00  |  |                     |  |
| 22. <input checked="" type="checkbox"/> Examination fee<br>If International preliminary examination report prepared by USPTO and all claims satisfy provisions of PCT Article 33(1)-(4)..... \$100<br>All other situations..... \$200   |              |   |         | \$ 200.00  |  |                     |  |
|   |              |   |         | \$ 100.00  |  |                     |  |
| 23. <input checked="" type="checkbox"/> Search fee<br>Search fee (37 CFR 1.445(a)(2)) has been paid on the international application to the USPTO as an International Searching Authority..... \$100<br>International Search Report prepared and provided to the Office..... \$400<br>All other situations..... \$500   |              |   |         |  |  |                     |  |
|   |              |   |         |  |  |                     |  |
| <b>TOTAL OF 21, 22 and 23 =</b>   |              |   |         | \$ 600.00  |  |                     |  |
| <input type="checkbox"/> Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing or computer program listing filed in an electronic medium).<br>The fee is \$250 for each additional 50 sheets of paper or fraction thereof.   |              |   |         | \$ 0   |  |                     |  |
|   |              |   |         |  |  |                     |  |
| Total Sheets  | Extra Sheets | Number of each additional 50 or fraction thereof (round up to a whole number) | RATE    | \$ 0   |  |                     |  |
| 29 - 100 =  | 0 /50 =      |   | x \$250 |  |  |                     |  |
| Surcharge of \$130.00 for furnishing the oath or declaration later than 30 months from the earliest claimed priority date (37 CFR 1.492(h)).  |              |   |         | \$   |  |                     |  |
| CLAIMS  | NUMBER FILED | NUMBER EXTRA  | RATE    | \$   |  |                     |  |
| Total claims  | 20 - 20 =    | 0   | x \$ 50 | \$ 0   |  |                     |  |
| Independent claims  | 3 - 3 =      | 0   | x \$200 | \$ 0   |  |                     |  |
| MULTIPLE DEPENDENT CLAIM(S) (if applicable)   |              |   | + \$360 | \$ 0   |  |                     |  |
| <b>TOTAL OF ABOVE CALCULATIONS =</b>  |              |   |         | \$ 600.00  |  |                     |  |
| <input checked="" type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27. Fees above are reduced by 1/2.   |              |   |         |  |  |                     |  |
| <b>SUBTOTAL =</b>   |              |   |         | \$ 300.00  |  |                     |  |
| Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(i)).   |              |   |         | \$   |  |                     |  |
| <b>TOTAL NATIONAL FEE =</b>   |              |   |         | \$ 300.00  |  |                     |  |
| Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property  |              |   |         | \$   |  |                     |  |
| <b>TOTAL FEES ENCLOSED =</b>  |              |   |         | \$ 300.00  |  |                     |  |
|   |              |   |         | Amount to be refunded:   |  | \$                  |  |
|   |              |   |         | Amount to be charged:  |  | \$                  |  |
| a. <input checked="" type="checkbox"/> A check in the amount of \$ 300.00 to cover the above fees is enclosed.<br>b. <input type="checkbox"/> Please charge my Deposit Account No. _____ in the amount of \$ _____ to cover the above fees.<br>A duplicate copy of this sheet is enclosed.<br>c. <input checked="" type="checkbox"/> The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. 50-0548. A duplicate copy of this sheet is enclosed.<br>d. <input type="checkbox"/> Fees are to be charged to a credit card. <b>WARNING:</b> Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038. |              |   |         |  |  |                     |  |
| <b>NOTE:</b> Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the International Application to pending status.   |              |   |         |  |  |                     |  |
| SEND ALL CORRESPONDENCE TO:<br>Thomas P. Liniak, Esq.<br>Liniak, Berenato & White, LLC<br>6550 Rock Spring Drive, Suite 240<br>Bethesda, Maryland 20817   |              |   |         | <br>SIGNATURE<br>Thomas P. Liniak, Esq.<br>NAME<br>33,415<br>REGISTRATION NUMBER |  |                     |  |